

b345;s pn=us 6004582;t1/39/1  
 07jan03 15:00:40 User259289 Session D449.1  
 \$0.00 0.082 DialUnits File415  
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 \$0.43 Estimated total session cost 0.082 DialUnits

File 345:Inpadoc/Fam.& Legal Stat 1968-2002/UD=200252  
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Set	Items	Description
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S1	1	PN=US 6004582

1/39/1  
 DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
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15618325  
 Basic Patent (No,Kind,Date): CA 2261787 AA 19981203 <No. of Patents: 010>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
AU 9877065	A1	19981230	AU 9877065	A	19980529	
BR 9802144	A	19990525	BR 9802144	A	19980529	
CA 2261787	AA	19981203	CA 2261787	A	19980529	(BASIC)
CN 1228020	T	19990908	CN 98800728	A	19980529	
EP 914098	A1	19990512	EP 98925026	A	19980529	
EP 914098	A4	20011219	EP 98925026	A	19980529	
IL 128043	A0	19991130	IL 128043	A	19980529	
JP 2000516637	T2	20001212	JP 99500972	A	19980529	
US 6004582	A	19991221	US 86871	A	19980529	
WO 9853802	A1	19981203	WO 98US11010	A	19980529	

Priority Data (No,Kind,Date):

AR 9702351 A 19970530  
 WO 98US11010 W 19980529  
 US 86871 A 19980529

PATENT FAMILY:

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 9877065 A1 19981230  
 MULTI-LAYERED OSMOTIC DEVICE (English)  
 Patent Assignee: PHOENIX U S A INC LAB  
 Author (Inventor): FAOUR JOAQUINA; MAYORGA JORGE  
 Priority (No,Kind,Date): AR 9702351 A 19970530; WO 98US11010 W  
 19980529; US 86871 A 19980529  
 Applic (No,Kind,Date): AU 9877065 A 19980529  
 IPC: \* A61K-009/22  
 CA Abstract No: \* 130(04)043357S  
 Derwent WPI Acc No: \* C 99-034915  
 Language of Document: English

AUSTRALIA (AU)

Legal Status (No,Type,Date,Code,Text):

AU 9877065 A 20000210 AU MK6 APPLICATION LAPSED SECTION  
 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT  
 ENTERING NATIONAL PHASE

BRAZIL (BR)

Patent (No,Kind,Date): BR 9802144 A 19990525  
 DISPOSITIVO OSMOTICO MULTICAPA APERFEICOADO (Portugese)

Patent Assignee: MAYORGA JORGE EZEQUIEL (AR)  
 Author (Inventor): MAYORGA JORGE EZEQUIEL (AR)  
 Priority (No,Kind,Date): AR 9702351 A 19970530; US 86871 A  
 19980529  
 Applic (No,Kind,Date): BR 98U2144 A 19980529  
 IPC: \* A61K-009/24  
 CA Abstract No: \* 130(04)043357S  
 Derwent WPI Acc No: \* C 99-034915  
 Language of Document: Portugese

BRAZIL (BR)

Legal Status (No,Type,Date,Code,Text):  
 BR 9802144 P 20000215 BR PC TRANSFER (TRANSFERENCIA  
 DEFERIDA)  
 Laboratorios Phoenix S.A.I.C.F. (BR/SP)

CANADA (CA)

Patent (No,Kind,Date): CA 2261787 AA 19981203  
 MULTI-LAYERED OSMOTIC DEVICE (English; French)  
 Patent Assignee: PHOENIX U S A INC LAB (US)  
 Author (Inventor): FAOUR JOAQUINA (AR); MAYORGA JORGE (AR)  
 Priority (No,Kind,Date): AR 9702351 A 19970530; US 86871 A  
 19980529  
 Applic (No,Kind,Date): CA 2261787 A 19980529  
 IPC: \* A61K-009/22; A61K-009/52  
 CA Abstract No: \* 130(04)043357S  
 Derwent WPI Acc No: \* C 99-034915  
 Language of Document: English

CANADA (CA)

Legal Status (No,Type,Date,Code,Text):  
 CA 2261787 P 19990128 CA REFW CORRESPONDS TO PCT  
 APPLICATION (ENTSPRICHT PCT ANMELDUNG)  
 WO 9853802 P

CHINA (CN)

Patent (No,Kind,Date): CN 1228020 T 19990908  
 MULTI-LAYERED OSMOTIC DEVICE (English)  
 Patent Assignee: PHOENIX U S A INC LAB (US)  
 Author (Inventor): FAOUR JOAQUINA (US); MAYORGA JORGE (US)  
 Priority (No,Kind,Date): AR 9702351 A 19970530; US 86871 A  
 19980529  
 Applic (No,Kind,Date): CN 98800728 A 19980529  
 IPC: \* A61K-009/22  
 CA Abstract No: \* 130(04)043357S  
 Derwent WPI Acc No: \* C 99-034915  
 Language of Document: Chinese

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 914098 A1 19990512  
 MULTI-LAYERED OSMOTIC DEVICE (English; French; German)  
 Patent Assignee: PHOENIX U S A INC LAB (US)  
 Author (Inventor): FAOUR JOAQUINA (AR); MAYORGA JORGE (AR)  
 Priority (No,Kind,Date): AR 9702351 A 19970530; WO 98US11010 W  
 19980529; US 86871 A 19980529  
 Applic (No,Kind,Date): EP 98925026 A 19980529  
 Designated States: (National) AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
 GR; IE; IT; LI; LU; MC; NL; PT; SE  
 IPC: \* A61K-009/22  
 CA Abstract No: \* 130(04)043357S  
 Derwent WPI Acc No: \* C 99-034915  
 Language of Document: English

Patent (No,Kind,Date): EP 914098 A4 20011219  
 MULTI-LAYERED OSMOTIC DEVICE (English; French; German)  
 Patent Assignee: PHOENIX U S A INC LAB (US)  
 Author (Inventor): FAOUR JOAQUINA (AR); MAYORGA JORGE (AR)  
 Priority (No,Kind,Date): AR 9702351 A 19970530; WO 98US11010 W  
 19980529; US 86871 A 19980529  
 Applic (No,Kind,Date): EP 98925026 A 19980529  
 Designated States: (National) AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
 GR; IE; IT; LI; LU; MC; NL; PT; SE  
 IPC: \* A61K-009/22; A61K-009/00  
 CA Abstract No: \* 130(04)043357S  
 Derwent WPI Acc No: \* C 99-034915  
 Language of Document: English

## EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 914098	P	19970530	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
		AR 9702351	A	19970530
EP 914098	P	19980529	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
		US 86871	A	19980529
EP 914098	P	19980529	EP AA	PCT-APPLICATION (PCT-ANMELDUNG)
		WO 98US11010	W	19980529
EP 914098	P	19980529	EP AE	EP-APPLICATION (EUROPAEISCHE ANMELDUNG)
		EP 98925026	A	19980529
EP 914098	P	19990512	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: (IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN)
		AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE		
EP 914098	P	19990512	EP A1	PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)
EP 914098	P	19990512	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT)
		19990122		
EP 914098	P	20011219	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A SUPPLEMENTARY SEARCH REPORT: (IN EINEM ERGAENZENDEN RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
		AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE		
EP 914098	P	20011219	EP A4	SUPPLEMENTARY SEARCH REPORT (ERGAENZENDER RECHERCHENBERICHT)
		20011106		
EP 914098	P	20011219	EP RIC1	CLASSIFICATION (CORRECTION) (KLASSIFIKATION (KORR.))
		7A 61K 9/22 A, 7A 61K 9/00 B		
EP 914098	P	20021002	EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHIED)
		20020813		
EP 914098	P	20021009	EP RAP1	APPLICANT REASSIGNMENT (CORRECTION) (ANMELDER UEBERTRAGUNG (KORR.))

OSMOTICA CORP.

ISRAEL (IL)

Patent (No,Kind,Date): IL 128043 A0 19991130  
 MULTI-LAYERED OSMOTIC DEVICE (English)  
 Patent Assignee: PHOENIX U S A INC LAB  
 Priority (No,Kind,Date): AR 9702351 A 19970530; WO 98US11010 W  
 19980529  
 Applic (No,Kind,Date): IL 128043 A 19980529  
 IPC: \* A61K  
 CA Abstract No: \* 130(04)043357S  
 Derwent WPI Acc No: \* C 99-034915  
 Language of Document: English

JAPAN (JP)

Patent (No,Kind,Date): JP 2000516637 T2 20001212  
 Priority (No,Kind,Date): AR 9702351 A 19970530; WO 98US11010 W  
 19980529  
 Applic (No,Kind,Date): JP 99500972 A 19980529  
 IPC: \* A61K-009/24; A61K-031/137; A61K-031/341; A61K-031/40;  
 A61K-031/4468; A61K-031/4545; A61K-031/522; A61K-031/554; A61K-047/32  
 CA Abstract No: \* 130(04)043357S  
 Derwent WPI Acc No: \* C 99-034915  
 Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 6004582 A 19991221  
 MULTI-LAYERED OSMOTIC DEVICE (English)  
 Patent Assignee: PHOENIX U S A INC LAB (AR)  
 Author (Inventor): FAOUR JOAQUINA (AR); MAYORGA JORGE (AR)  
 Priority (No,Kind,Date): US 86871 A 19980529; AR 9702351 A  
 19970530  
 Applic (No,Kind,Date): US 86871 A 19980529  
 National Class: \* 424473000; 424468000; 424472000; 424474000;  
 424476000; 424475000; 424479000; 424482000  
 IPC: \* A61K-009/22; A61K-009/24  
 CA Abstract No: \* 130(04)043357S  
 Derwent WPI Acc No: \* C 99-034915  
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):  
 US 6004582 P 19970530 US AA PRIORITY (PATENT)  
 AR 9702351 A 19970530  
 US 6004582 P 19980529 US AE APPLICATION DATA (PATENT)  
 (APPL. DATA (PATENT))  
 US 86871 A 19980529  
 US 6004582 P 19991221 US A PATENT  
 US 6004582 P 20020326 US RF REISSUE APPLICATION FILED  
 (REISSUE APPL. FILED)  
 20011203

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9853802 A1 19981203  
 MULTI-LAYERED OSMOTIC DEVICE (English)  
 Patent Assignee: PHOENIX U S A INC LAB (US); FAOUR JOAQUINA (AR);  
 MAYORGA JORGE (AR)  
 Author (Inventor): FAOUR JOAQUINA (AR); MAYORGA JORGE (AR)  
 Priority (No,Kind,Date): AR 9702351 A 19970530; US 86871 A  
 19980529  
 Applic (No,Kind,Date): WO 98US11010 A 19980529  
 Designated States: (National) AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY;  
 CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; GW; HU; ID;

IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG;  
MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ;  
TM; TR; TT; UA; UG; US; UZ; VN; YU; ZW (Regional) GH; GM; KE; LS;  
MW; SD; SZ; UG; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; CH;  
CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ;  
CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

Filing Details: WO 100000 With international search report

IPC: \* A61K-009/22

CA Abstract No: \* 130(04)043357S; 130(04)043357S

Derwent WPI Acc No: \* C 99-034915; C 99-034915

Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No, Type, Date, Code, Text):

WO 9853802	P	19970530	WO AA	PRIORITY (PATENT)
			AR 9702351 A	19970530
WO 9853802	P	19980529	WO AA	PRIORITY (PATENT)
			US 86871 A	19980529
WO 9853802	P	19980529	WO AE	APPLICATION DATA (APPL. DATA)
			WO 98US11010 A	19980529
WO 9853802	P	19981203	WO AK	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
			AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW	
WO 9853802	P	19981203	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
			GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG	
WO 9853802	P	19981203	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9853802	P	19990128	WO ENP	ENTRY INTO THE NATIONAL PHASE IN:
			CA 2261787 AA	
WO 9853802	P	19990414	WO 121	EP: PCT APP. ART. 158 (1) (EP: PCT ANM. ART. 158 (1))
WO 9853802	P	19990930	DE 8642/REG	IMPACT ABOLISHED FOR DE (WIRKUNG WEGGEFALLEN FUER DE)

?

**Channavajjala Pat. No. 6,004,582**

*1 / 1 PLUSPAT - ©QUESTEL-ORBIT*

- PN** - US6004582 A 19991221 [US6004582]
- TI** - (A) Multi-layered osmotic device
- PA** - (A) PHOENIX U S A INC LAB (AR)
- IN** - (A) FAOUR JOAQUINA (AR); MAYORGA JORGE (AR)
- AP** - US8687198 19980529 [1998US-0086871]
- PR** - US8687198 19980529 [1998US-0086871]  
AR9702351 19970530 [1997AR-0002351]
- IC** - (A) A61K-009/22 A61K-009/24
- EC** - A61K-009/00L4
- PCL** - ORIGINAL (O) : 424473000; CROSS-REFERENCE (X) : 424468000  
424472000 424474000 424475000 424476000 424479000 424482000
- DT** - Corresponding document
- CT** - US4014334; US4335099; US4576604; US4673405; US4801461; US4810502;  
US5035897; US5558879; US5681584
- STG** - (A) United States patent
- AB** - The present invention provides a simple and improved multi-layered osmotic device (1) that is capable of delivering a first active agent in an outer lamina (2) to one environment of use and a second active agent in the core (5) to another environment of use. Particular embodiments of the invention provide osmotic devices in which the first and second active agents are similar or dissimilar. An erodible polymer coat (3) between an internal semipermeable membrane (4) and a second active agent-containing external coat (2) comprises poly(vinylpyrrolidone)-(vinyl acetate) copolymer. This particular erodible polymer results in an improved multi-layered osmotic device possessing advantages over related devices known in the art. The active agent in the core (5) is delivered through a pore (6) containing an erodible plug (7). The osmotic device (1) can be coated by a final finish coat (8).